

What is claimed is:

1. A reception apparatus comprising:

5 a channel estimation section that acquires a channel estimate value using a received signal;

a phase rotation section that carries out phase rotation on said channel estimate value; and

10 a coherent detection section that carries out coherent detection of said received signal using the corrected channel estimate value obtained through the phase rotation.

2. The reception apparatus according to claim 1, wherein said phase rotation section carries out phase rotation
15 on said channel estimate value by an amount of phase rotation determined according to the modulation scheme of the received signal.

3. The reception apparatus according to claim 1, wherein
20 said phase rotation section carries out phase rotation on said channel estimate value by $(\pi/4)$.

4. The reception apparatus according to claim 1, wherein said phase rotation section carries out phase rotation
25 on said channel estimate value by an amount of phase rotation determined in accordance with a channelization code assigned to the own apparatus.

5. The reception apparatus according to claim 1, further comprising:

5 a despreading section that despreads said received signal by multiplying the received signal by an Hadamard matrix; and

an interference cancellation section that cancels interference from the signal despread by said despreading section using said corrected channel estimate value.

10 6. A radio communication terminal apparatus comprising the reception apparatus according to claim 1.

7. A radio communication base station apparatus comprising the reception apparatus according to claim
15 1.

8. A reception method comprising:

a step of acquiring a channel estimate value using a received signal;

20 a step of carrying out phase rotation on said channel estimate value; and

a step of carrying out coherent detection of said received signal using the corrected channel estimate value obtained through the phase rotation.

25